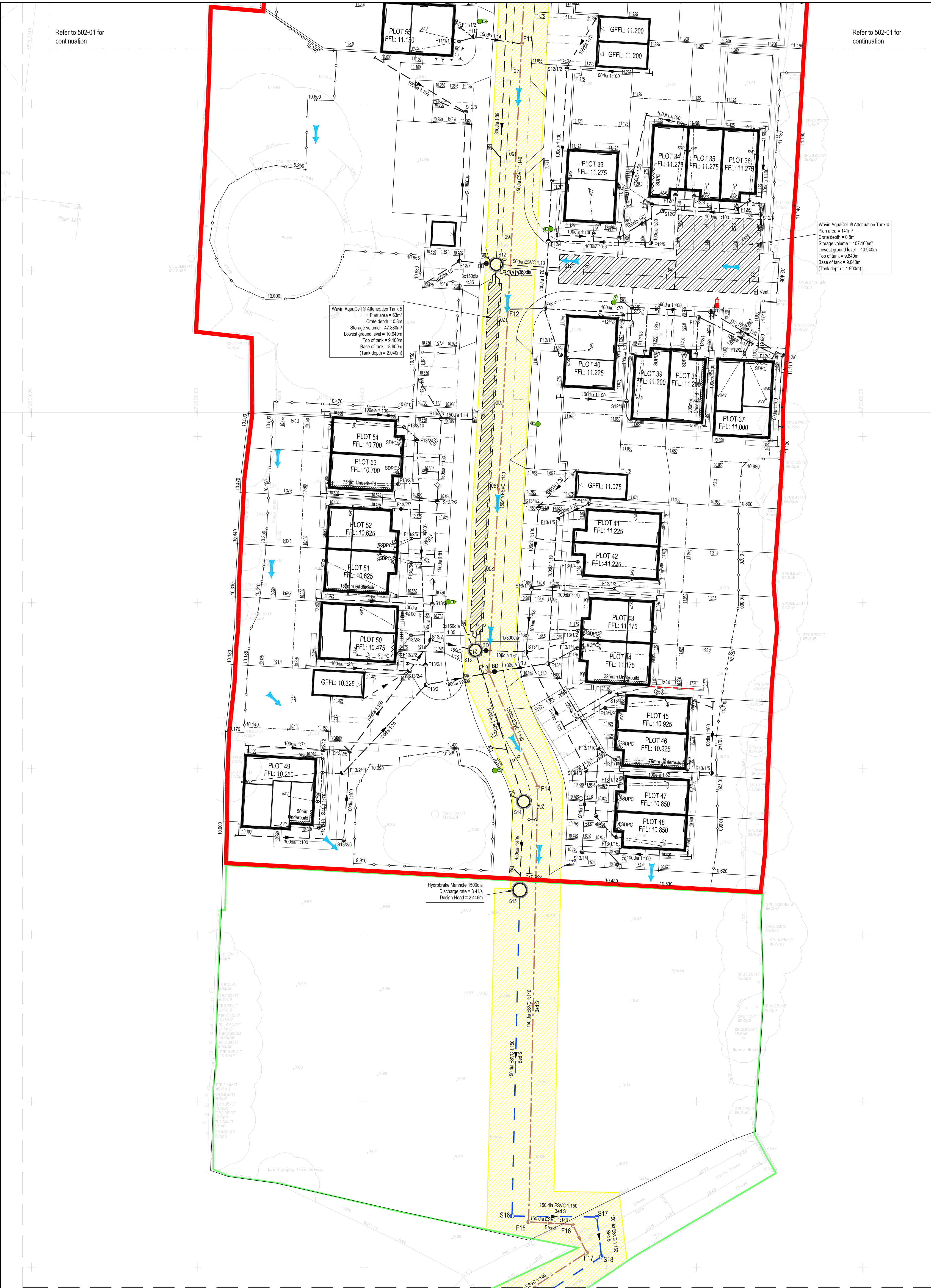




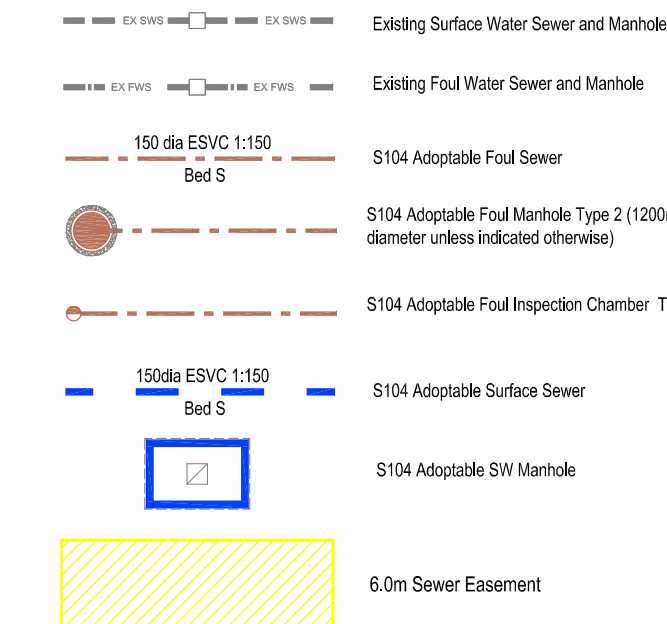
SECTION 104 SURFACE WATER MANHOLE SCHEDULE						
No	Reference	Cover Level (m)	Invert Level (m)	Depth to soffit (m)	Chamber Size (mm)	Type
1	S16	9.960	7.965	1.845	450	3
2	S17	10.266	7.897	2.219	450	3
3	S18	10.070	7.865	2.555	450	3
4	S19	9.500	7.745	1.905	450	3
5	S20	10.100	7.514	2.436	450	3
6	S21	10.340	7.259	2.831	1200	2

* Cover size restricted to 350mm dia or 300 x 300mm where depth of chamber to invert level is >1.2m.

SECTION 104 FOUL WATER MANHOLE SCHEDULE						
No	Reference	Cover Level (m)	Invert Level (m)	Depth to soffit (m)	Chamber Size (mm)	Type
1	F4	12.000	10.631	1.219	450	3
2	F5	12.140	10.512	1.478	450	3
3	F6	11.740	10.382	1.198	450	3
4	F7	11.860	10.300	1.280	450	3
5	F8	11.380	9.703	1.467	450	3
6	F9	11.270	9.661	1.509	450	3
7	F10	11.160	9.480	1.530	1200	2
8	F11	11.030	9.252	1.678	450	3
9	F12	10.860	9.023	1.767	450	3
10	F13	10.660	8.710	1.900	450	3
11	F14	10.580	8.741	1.689	450	3
12	F15	9.960	8.228	1.592	450	3
13	F16	10.183	8.190	1.643	450	3
14	F17	10.080	8.162	1.788	450	3
15	F18	9.550	8.037	1.363	450	3
16	F19	9.810	7.880	1.760	450	3
17	F20	10.250	7.711	2.389	450	3
18	F21	10.050	7.580	2.320	450	3
19	F22	10.070	7.259	2.864	1200	2

* Cover size restricted to 350mm dia or 300 x 300mm where depth of chamber to invert level is >1.2m.

Drainage Key



CONSTRUCTION (DESIGN AND MANAGEMENT) REGULATIONS 2015 (CDM 2015)

In addition to the hazards/risks normally associated with the type of work detailed on this drawing note should be made of the following:

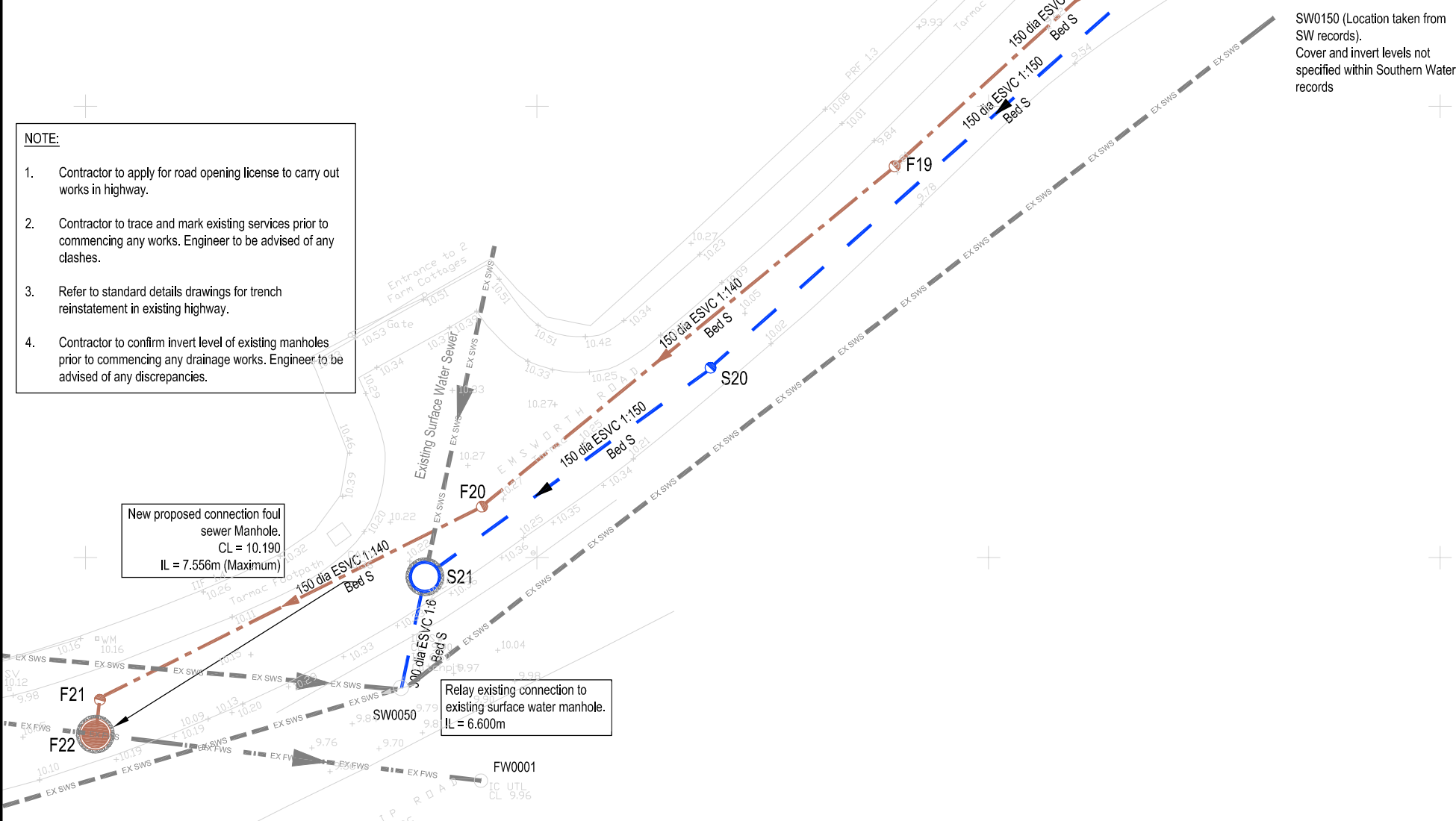
- Working in vicinity of deep excavations (refer to site investigation for soil parameters for temporary works design).
- Services (contractor to trace and identify all services)
- Working adjacent live Highway
- Connection to live sewer

It is assumed that all works will be carried out by a competent contractor working to an appropriate construction phase plan.

NOTES

- All levels relate to Ordnance Datum.
- All gullies to be rotatable or connected to inspection chambers. All road gullies connections to be 150R, connections other than at manholes to be "Y" junctions. Gully covers with pedestrian crossings to have pedestrian type gully covers. Positions of yard and house gullies are nominal and may be adjusted on site.
- All domestic drainage to be 100R U.N.O or as noted. Minimum gradient for 100R SW is 1:100 and 100R FW is 1:80. Bedding for domestic drainage Class B. All pipe runs near buildings to comply with the Building Regulations 2012 Part H1.
- All works to be in accordance with WRC Sewers for Adoption 7th Edition or as stipulated in Southern Water Authority addendum, the Local Authority and BS8301 1985.
- All materials to be agreed by LA. Trench fill under roads to be clause 613 material as agreed with LA.
- All slab levels shown are for guidance only and may need to be adjusted on site, subject to approval by the engineer.
- The contractor must comply with all current legislation relating to Health and Safety. The contractor must familiarise himself with all service companies records of existing plant locations prior to any excavation works. All existing services/sewers to be traced/surveyed. Any discrepancies to be reported to the engineer immediately.
- All concrete and concrete products to be in accordance with BRE 363 for sulphates.
- All slab slabs to be fitted with air admittance valves where branch drain exceeds 12m except at the head of run.
- Position of soil pipes, standing wastes, wc, outlets etc. are shown on the Architect's working drawings. Rainwater downpipe positions are to be checked against architect details to ensure compatibility. Rainwater downpipes to have rodding access facilities where surface water drainage passes under buildings.
- Driveways to garages with steep approaches to be with suitable HOG & SAG curvature to avoid grounding out.
- All plots to have which has gardens sloping towards the back of the house to have trench drains. Drain to be connected to surface water system.
- Where block paved areas fall towards building to a 100mm filter strip/perforated drain connected to drainage system.
- All existing/new utility services within the vicinity of ANY trees to be carried out in accordance with NUGO Publication number 10. Guide line for planning, installation and maintenance of utility services in proximity to trees.
- All properties to have level access front and rear where ever possible. Final levels of paths and patios to be set such that they not obstruct outdoor ventilation.
- Do not scale from this drawing, work only from stated dimensions or setting out details.
- This drawing is to be read in conjunction with all relevant Escher Shierman drawings and specifications.
- Do not scale from this drawing, work only from stated dimensions or setting out details.
- For manhole type and covers refer to standard details.
- Manhole levels at existing drainage connections to be confirmed prior to commencement of drainage works and engineer advised if there is any discrepancy.

- NOTE:
- Contractor to apply for road opening license to carry out works in Highway.
 - Contractor to trace and mark existing services prior to commencing any works. Engineer to be advised of any clashes.
 - Refer to standard details drawings for trench reinstatement in existing highway.
 - Contractor to confirm invert level of existing manholes prior to commencing any drainage works. Engineer to be advised of any discrepancies.



Rev	Date	Details	Initials
D	05.06.19	Additional sewer records added to southern connection. F21 & F22 amended	MA
C	23.05.19	S104 surface water drainage amended at south of site following receipt of additional survey information F21 to F22 angle amended.	KAM
B	27.03.19	Drainage notes added. F15 & F16 position tweaked	HN
A	05.03.19	Initial issue	MA

Drawing Status

CONSTRUCTION

Project
**Castle Avenue,
Havant**

Client



Drawing Title

Section S104 Agreement Plan

Drawn	Checked	Scales	Paper Size	Date
MA	KAM	1:250	A1	01.19
Job No.	Drawing No.	Revision		
ES1857	S104-02	D		